

# Oregon Status Factors

**Elcode** NF0000TUAS

**Gname** TUBER ASA

**Gcomname**

## Number of Occurrences

A = 1 - 5

**Comments** Although finding truffles can be challenging, many are sufficiently common to be known from hundreds of collections. Castellano et al. (1999) and the ISMS data base both list two sites from Oregon for this species;

## Number of Occurrences with Good Viability

B = Very few (1-3) occurrences with good viability

**Comments** Two of the Oregon sites are in protected areas, one in a G1/2 site, one in an LSR.

## Population Size

U = Unknown

**Comments** This can not be determined; records reflect only species presence.

## Range Extent

B = 100-250 km<sup>2</sup> (about 40-100 square miles)

C = 250-1,000 km<sup>2</sup> (about 100-400 square miles)

**Comments** In Oregon, known only from the Siuslaw National Forest in Benton and Tillamook Counties.

## Area of Occupancy

U = Unknown

**Comments** Short of using molecular tools there is no way to evaluate this factor.

## Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Long-term trend in population, range, area occupied, or number or condition of occurrences unknown

**Comments** Insufficient data to evaluate these factors.

## Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Short-term trend in population, range, area occupied, and number and condition of occurrences unknown.

**Comments** Insufficient data to evaluate these factors.

## Threats

B = Moderate and imminent threat. Threat is moderate to severe and imminent for a significant proportion (20-60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a moderate area, either causing irreversible damage or requiring a long-term recovery.

Scope Moderate Severity Moderate Immediacy Moderate

**Comments** Tubers are known to be mycorrhizal, and usually associated with the roots of woody plants, thus threats to the photosynthetic member of the partnership resulting in decline in vigor to death also will affect the fungus. Obvious threats are logging and development.

## Number of Appropriately Protected and Managed Occurrences

B = Few (1-3) occurrences appropriately protected and managed

**Comments** In Oregon one collection was made in a G1/2 area and another in a LSR, both of which are protected at this time.

## Intrinsic Vulnerability

B = Moderately Vulnerable. Species exhibits moderate age of maturity, frequency of reproduction, and/or fecundity such that populations generally tend to recover from decreases in abundance over a period of several years (on the order of 5-20 years or 2-5 generations); or species has moderate dispersal capability such that extirpated populations generally become reestablished through natural recolonization (unaided by humans). Ecological community occurrences may be susceptible to changes in composition and structure but tend to recover through natural processes given reasonable time (10-100 years).

**Comments** The survival of the species is probably dependent in large part on the survival and vigor of the photosynthetic partner. Thus events and activities that impact the photosynthetic partner (air pollution, logging, landslides, development, etc.) are likely to impact the species. Without suitable agents of dispersal (primarily small mammals most likely) dispersal of spores and thus opportunities to colonize new habitats will be severely curtailed.

## Environmental Specificity

B = Narrow. Specialist or community with key requirements common.

**Comments**

## Other Considerations

ORNHIC List 3.

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## Reasons

In the context of studies on truffles, this one counts as extremely rare. In Oregon it is known only from two sites, one of which is permanently protected.

## BCD Sources

## New Sources

Castellano, M.A., Smith, J.A., O'Dell, T., Cazares, E., and Nugent, S. 1999. Handbook to Strategy 1 Fungal Species in the Northwest Forest Plan. Portland, Oregon: USDA Forest Service, PNWRS PNW-GTR-476.